



SEQUENCE LISTING

ins
B22
<110> JOHNSON Jr., Eugene M.
MILBRANDT, Jeffrey D.
KOTZBAUER, Paul T.
LAMPE, Patricia A.
KLEIN, Robert
DESAUVAGE, Fred

<120> Persephin and Related Growth Factors

<130> 6029-2668

<140> 09/474,980

<141> 1999-12-29

<150> 08/519,777

<151> 1995-08-28

<160> 242

<170> Microsoft Word 97

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<211> 102

<212> PRT

<213> Homo sapiens

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Arg Tyr Cys Ala Gly Ala Cys Glu Ala Ala Arg Val Tyr Asp Leu
35 40 45

Gly Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val
50 55 60

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20 25 30

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35 40 45

Arg Arg Leu Arg Gln Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala
50 55 60

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 35 40 45
 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
 50 55 60
 Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro
 65 70 75 80
 Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg Ala
 85 90 95
 Arg Leu Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val
 100 105 110
 Ser Glu Leu Gly Leu Gly Tyr Ala Ser Asp Glu Thr Val Leu Phe Arg
 115 120 125
 Tyr Cys Ala Gly Ala Cys Glu Ala Ala Ala Arg Val Tyr Asp Leu Gly
 130 135 140
 Leu Arg Arg Leu Arg Gln Arg Arg Arg Leu Arg Arg Glu Arg Val Arg
 145 150 155 160
 Ala Gln Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe
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 Glu Cys Ala Cys Val
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 35 40 45
 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
 50 55 60
 Pro Asp Ala Val Glu Leu Arg Glu Leu Ser Pro Trp Ala Ala Arg Ile
 65 70 75 80
 Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg Pro
 85 90 95
 Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu
 100 105 110
 Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys
 115 120 125
 Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu Arg
 130 135 140
 Arg Leu Arg Gln Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His
 145 150 155 160
 Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp
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 cgggcgcggg cgcacccgtg ttgtcgccc acggcctatg aggacgaggt gtccttcctg 240

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 caccgcctgc ctogaaccct ggacgcccgg attgcccggc tggcccagta ccgtgcactc 180
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 cggccttgcg ggctgcgcga gctggaggtg cgcgtgagcg agctgggcct gggctacgcg 360
 tccgacgaga cgggtgtgtt ccgctactgc gcaggcgctt gcgaggctgc cgcgcgcgtc 420
 tacgacctcg ggctgcgacg actgcgccag cggcggcgcc tgcggcgga gcgggtgcgc 480
 gcgcagccct gctgccgcc gacggcctac gaggacgagg tgtccttcct ggacgcgcac 540
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 cgacgccctc caccgacctt ggacgccgcg atcgcccgcc tggcccagta tcgcgctctg 180
 ctccagggcg ccccgacgc ggtggagctt cgagaacttt ctccctgggc tgcccgcatc 240
 cggggaccgc gccgtcgagc gggccccgg cgtcggcggg cgcggccggg ggctcggcct 300
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 ctgggccttc ggcgcctgcg ccagcgagg cgcgtgcgca gagagcgggc gcgggcgcac 480
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 gcgagccccg ggaagacaga gaaagagagg ccaggggggg aaccccatgg cccggcccgt 180

gtcccgacc ctgtgcggtg gctcctccg gcacggggtc cccgggtcgc ctccgggtccc 240
 cgcgatccgg atggcgcacg cagtggctgg ggccgggccc ggctcgggtg gtcggaggag 300
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<210> 14
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 <212> DNA
 <213> Mus musculus

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 gacttcacat aaagtgtggg aactccc 87

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 <211> 19
 <212> PRT
 <213> Mus musculus

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 1 5 10 15

Leu Leu Ser

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 <211> 57
 <212> DNA
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<210> 18
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<213> Mus musculus
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ctgctccagg gcgccccga cgcggtggag cttcgagaac tttctccctg ggctgccccg 180
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<213> Mus musculus
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 <213> Mus musculus

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 20 25 30
 Leu Gly Pro Ala Leu Val Pro Leu His Arg Leu Pro Arg Thr Leu Asp
 35 40 45
 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
 50 55 60
 Pro Asp Ala Met Glu Leu Arg Glu Leu Thr Pro Trp Ala Gly Arg Pro
 65 70 75 80
 Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg
 85 90 95

<210> 24
 <211> 95
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 35 40 45
 Ala Arg Ile Ala Arg Leu Ala Gln Tyr Arg Ala Leu Leu Gln Gly Ala
 50 55 60
 Pro Asp Ala Val Glu Leu Arg Glu Leu Ser Pro Trp Ala Ala Arg Ile
 65 70 75 80
 Pro Gly Pro Arg Arg Arg Ala Gly Pro Arg Arg Arg Arg Ala Arg
 85 90 95

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<210> 26
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<213> Homo sapiens

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 20 25 30
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 35 40 45
 Arg Arg Arg Leu Arg Arg Glu Arg Val Arg Ala Gln Pro Cys Cys Arg 60
 50 55 60
 Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Ala His Ser Arg 80
 65 70 75 80
 Tyr His Thr Val His Glu Leu Ser Ala Arg Glu Cys Ala Cys 90
 85 90

<210> 32

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<212> PRT

<213> Mus musculus

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 20 25 30
 Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln 45
 35 40 45
 Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His Pro Cys Cys Arg 60
 50 55 60
 Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser Arg 80
 65 70 75 80
 Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys 90
 85 90

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 <222> (2)
 <223> Serine or Threonine

<220>
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 <222> (3)
 <223> Glutamic Acid or Aspartic Acid

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 <222> (3)
 <223> Valine or Leucine

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 <222> (4)
 <223> Leucine or Isoleucine

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 <222> (9)
 <223> Alanine or Serine

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 <223> Alanine or Serine

<220>
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 <222> (13)
 <223> Glutamic Acid or Aspartic Acid

<220>
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 <222> (14)
 <223> Alanine or Serine

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<212> PRT
 <213> Mus musculus

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 <222> (5)
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<220>
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 <222> (7)
 <223> Tyrosine or Phenylalanine

<220>
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 <222> (8)
 <223> Glutamic Acid or Aspartic Acid

<220>
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 <222> (10)
 <223> Glutamic Acid or Aspartic Acid

<220>
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 <222> (11)
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 <213> Mus musculus

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 <223> Alanine or Serine

<220>
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<220>
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 <222> (9)
 <223> Glutamic Acid or Aspartic Acid

<220>
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 <222> (10)
 <223> Serine or Alanine

<400> 36
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 1 5 10

<210> 37
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<220>
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 <223> Serine or Alanine

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 1 5 10

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 <223> Tyrosine or Phenylalanine

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<220>

<221> PRT

<222> (6)

<223> Valine or Leucine

<400> 39

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1 5 10

<210> 40

<211> 8

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<213> Mus musculus

<220>

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<220>

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<222> (3)

<223> Leucine or Valine

<220>

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<222> (4)

<223> Isoleucine or Leucine

<400> 40

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1 5

<210> 41

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<213> Mus musculus

<220>

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<220>

<221> PRT

<222> (3)

<223> Leucine or Valine

<220>

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<222> (4)

<223> Isoleucine or Leucine

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<223> Serine or Alanine

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 1 5 10

<210> 42
 <211> 23
 <212> DNA
 <213> Mus musculus

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 <223> n = a, t, c or g

<220>
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 <223> w = a or t

<220>
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<220>
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 <223> n = a, t, c or g

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<220>
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 <222> (10)
 <223> y = t or c

<220>
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 <222> (12)
 <223> n = a, t, c or g

<220>
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 <223> n = a, t, c or g

<220>
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 <222> (16)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (18)
 <223> n = a, t, c or g

<220>
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 <222> (21)
 <223> n = a, t, c or g

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23

<210> 43
 <211> 32
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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 <223> m = a or c

<220>
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 <223> n = a, t, c or g

<220>
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 <223> y = t or c

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 <223> s = g or c

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 <223> d = g, a, or t

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<223> s = g or c

<220>

<221> misc_feature

<222> (21)

<223> n = a, t, c or g

<220>

<221> misc_feature

<222> (24)

<223> y = t or c

<220>

<221> misc_feature

<222> (27)

<223> n = a, t, c or g

<220>

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<222> (28)

<223> k = g or t

<220>

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<222> (30)

<223> n = a, t, c or g

<400> 43

ttymgntayt gydsnggnds ntgygankcn gc

32

<210> 44

<211> 32

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (5)

<223> m = a or c

<220>

<221> misc_feature

<222> (6)

<223> n = a, t, c or g

<220>

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<222> (9)

<223> r = g or a

<220>

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<222> (12)

<223> n = a, t, c or g

<220>

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<223> s = g or c

<220>

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<222> (14)
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<220>
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<220>
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 <223> s = g or c

<220>
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 <222> (20)
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<220>
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 <223> r = g or a

<220>
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 <223> r = g or a

<220>
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 <222> (27)
 <223> n = a, t, c or g

<220>
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 <222> (29)
 <223> k = g or t

<220>
 <221> misc_feature
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 <223> r = g or a

<400> 44
 gcngmntcrc anshnccnsh rcartanckr aa

32

<210> 45
 <211> 29
 <212> DNA
 <213> Homo sapiens

<400> 45
 tctctntcrw angcnryngg nckrcarca

29

<210> 46
 <211> 29
 <212> DNA
 <213> Mus musculus

<220>
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B
22

<222> (3)
 <223> n = a, t, c or g

<220>
 <221> misc_feature
 <222> (5)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (6)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (9)
 <223> n = a, t, c or g

<220>
 <221> misc_feature
 <222> (10)
 <223> s = c or g

<220>
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 <222> (11)
 <223> w = a or t

<220>
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 <222> (12)
 <223> n = a, t, c or g

<220>
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 <223> v = a, c or g

<220>
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 <223> n = a, t, c or g

<220>
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 <222> (18)
 <223> r = a or g

<220>
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 <222> (21)
 <223> n = a, t, c or g

<220>
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 <222> (24)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (25)
 <223> w = a or t

<220>
 <221> misc_feature
 <222> (27)
 <223> n = a, t, c or g

<400> 46
tcharraans wnavntcrtc nterwangc

29

<210> 47
<211> 23
<212> DNA
<213> Mus musculus

<220>
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<220>
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<223> r = a or g

<220>
<221> misc_feature
<222> (5)
<223> m = a or c

<220>
<221> misc_feature
<222> (6)
<223> n = a, t, c or g

<220>
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<222> (7)
<223> b = t, c or g

<220>
<221> misc_feature
<222> (9)
<223> n = a, t, c or g

<220>
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<222> (10)
<223> h = a, t, or c

<220>
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<222> (12)
<223> n = a, t, c or g

<220>
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<222> (15)
<223> y = t or c

<220>
<221> misc_feature
<222> (16)
<223> m = a or c

<220>
<221> misc_feature
<222> (21)
<223> y = t or c

<400> 47
garrmbtnh tnttymgnta ytg

23

<210> 48
 <211> 38
 <212> DNA
 <213> Mus musculus

<220>
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<220>
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 <223> r = a or g

<220>
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 <222> (5)
 <223> m = a or c

<220>
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 <222> (6)
 <223> n = a, t, c or g

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 <223> b = t, c or g

<220>
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 <222> (9)
 <223> n = a, t, c or g

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 <223> h = a, t, or c

<220>
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 <222> (12)
 <223> n = a, t, c or g

<220>
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 <222> (15)
 <223> y = t or c

<220>
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 <222> (16)
 <223> m = a or c

<220>
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 <223> n = a, t, c or g

<220>
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 <223> y = t or c

<220>
 <221> misc_feature
 <222> (24)

<223> y = t or c

<220>

<221> misc_feature

<222> (25)

<223> d = a, t, or g

<220>

<221> misc_feature

<222> (26)

<223> s = c or g

<220>

<221> misc_feature

<222> (27)

<223> n = a, t, c or g

<220>

<221> misc_feature

<222> (30)

<223> n = a, t, c or g

<220>

<221> misc_feature

<222> (31)

<223> d = a, t, or g

<220>

<221> misc_feature

<222> (32)

<223> s = c or g

<220>

<221> misc_feature

<222> (33)

<223> n = a, t, c or g

<220>

<221> misc_feature

<222> (36)

<223> h = a, t or c

<400> 48

garrmnbtntn tnttymgnta ytgydsnggn dsntghga

38

<210> 49

<211> 93

<212> PRT

<213> Mus musculus

<400> 49

Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
1 5 10 15

Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
20 25 30

Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
35 40 45

Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
50 55 60

Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
65 70 75 80

His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys

85

90

<210> 50
 <211> 17
 <212> DNA
 <213> Mus musculus

<220>
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 <222> (3)
 <223> n = a, t, c or g

<220>
 <221> misc_feature
 <222> (6)
 <223> n = a, t, c or g

<220>
 <221> misc_feature
 <222> (9)
 <223> n = a, t, c or g

<220>
 <221> misc_feature
 <222> (12)
 <223> y = t or c

B
 22
 <220>
 <221> misc_feature
 <222> (15)
 <223> r = a or g

<400> 50
 ccnacngcnt aygarga

17

<210> 51

<400> 51
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<210> 52
 <211> 20
 <212> DNA
 <213> Mus musculus

<220>
 <221> misc_feature
 <222> (2)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (3)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (6)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (12)
 <223> y = t or c

<220>

<221> misc_feature
 <222> (15)
 <223> r = a or g

<400> 52
 arytcytgna rngtrtgrrta

20

<210> 53
 <211> 28
 <212> DNA
 <213> Rattus norvegicus

<400> 53
 gacgaggtgt ccttcctgga cgtacaca

28

<210> 54
 <211> 34
 <212> DNA
 <213> Mus musculus

<400> 54
 tagcggctgt gtacgtccag gaaggacacc tcgt

34

<210> 55
 <211> 26
 <212> DNA
 <213> Mus musculus

<400> 55
 cagcgacgac gcgtgcgcaa agagcg

26

<210> 56
 <211> 47
 <212> DNA
 <213> Mus musculus

<220>
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 <222> (3)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (6)
 <223> r = a or g

<220>
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 <222> (42)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (45)
 <223> y = t or c

<400> 56
 taygargacg aggtgtcctt cctggacgta cacagccgct aycayac

47

<210> 57
 <211> 26
 <212> DNA
 <213> Mus musculus

<400> 57
gcggccatcc gcattctacga cctggg

26

<210> 58
<211> 27
<212> DNA
<213> Mus musculus

<220>
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<222> (2)
<223> r = a or g

<220>
<221> misc_feature
<222> (17)
<223> r = a or g

<220>
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<222> (20)
<223> r = a or g

<400> 58
crtaggccgt cgggcgrcar cacgggt

27

<210> 59
<211> 27
<212> DNA
<213> Mus musculus

<400> 59
gcgccgaagg cccaggtcgt agatgcg

27

<210> 60
<211> 29
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (24)
<223> r = a or g

<400> 60
cgctactgcg caggcgcgtg cgargcggc

29

<210> 61
<211> 27
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (22)
<223> r = a or g

<400> 61
cgccgacagc tcttgacgcg trtggtg

27

<210> 62
<211> 30

<212> DNA
<213> Homo sapiens

<400> 62 30
gagctgggccc tgggctacgc gtccgacgag

<210> 63
<211> 39
<212> DNA
<213> Mus musculus

<400> 63 39
gcgacgcgta ccatgaggcg ctggaaggca gcggccctg

<210> 64
<211> 30
<212> DNA
<213> Mus musculus

<400> 64 30
gacggatccg catcacacgc acgcgcactc

<210> 65
<211> 29
<212> DNA
<213> Mus musculus

B 22
<400> 65 29
gaccatatgc cgggggctcg gccttggtg

<210> 66
<211> 30
<212> DNA
<213> Mus musculus

<400> 66 30
gacggatccg catcacacgc acgcgcactc

<210> 67
<211> 26
<212> DNA
<213> Mus musculus

<400> 67 26
cagcgacgac gcgtgcgcaa agagcg

<210> 68
<211> 34
<212> DNA
<213> Mus musculus

<400> 68 34
tagcggtgt gtacgtccag gaaggacacc tcgt

<210> 69
<211> 21
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (15)

<223> y = c or t

<400> 69
aaaaatcggg ggtgygtctt a

21

<210> 70
<211> 21
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (15)
<223> y = c or t

<400> 70
catgcctggc ctacyttgtc a

21

<210> 71
<211> 24
<212> DNA
<213> Homo sapiens

<220>
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<222> (12)
<223> m = a or c

<400> 71
ctggcgtccc amcaagggtc ttcg

24

<210> 72
<211> 23
<212> DNA
<213> Homo sapiens

<400> 72
gccagtgggtg ccgtcgaggc ggg

23

<210> 73
<211> 24
<212> DNA
<213> Mus musculus

<400> 73
ggcccaggat gaggcgctgg aagg

24

<210> 74
<211> 27
<212> DNA
<213> Homo sapiens

<220>
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<222> (17)
<223> w = a or t

<220>
<221> misc_feature
<222> (22)
<223> w = a or t

<400> 74
ccactccact gcctgawatt cwacccc

27

<210> 75
<211> 24
<212> DNA

<213> Homo sapiens

<400> 75

ccatgtgatt atcgaccatt cggc

24

<210> 76

<211> 134

<212> PRT

<213> Homo sapiens

<400> 76

Ser Pro Asp Lys Gln Met Ala Val Leu Pro Arg Arg Glu Arg Asn Arg
1 5 10 15

Gln Ala Ala Ala Ala Asn Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
20 25 30

Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
35 40 45

Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
50 55 60

Phe Arg Tyr Cys Ser Gly Ser Cys Asp Ala Ala Glu Thr Thr Tyr Asp
65 70 75 80

Lys Ile Leu Lys Asn Leu Ser Arg Asn Arg Arg Leu Val Ser Asp Lys
85 90 95

Val Gly Gln Ala Cys Cys Arg Pro Ile Ala Phe Asp Asp Asp Leu Ser
100 105 110

Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
115 120 125

Lys Arg Cys Gly Cys Ile
130

<210> 77

<211> 134

<212> PRT

<213> Mus musculus

<400> 77

Ser Pro Asp Lys Gln Ala Ala Ala Leu Pro Arg Arg Glu Arg Asn Arg
1 5 10 15

Gln Ala Ala Ala Ala Ser Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
20 25 30

Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
35 40 45

Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
50 55 60

Phe Arg Tyr Cys Ser Gly Ser Cys Glu Ser Ala Glu Thr Met Tyr Asp
65 70 75 80

Lys Ile Leu Lys Asn Leu Ser Arg Ser Arg Arg Leu Thr Ser Asp Lys
85 90 95

Val Gly Gln Ala Cys Cys Arg Pro Val Ala Phe Asp Asp Asp Leu Ser
100 105 110

Phe Leu Asp Asp Asn Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
115 120 125

Lys Arg Cys Gly Cys Ile
130

<210> 78
<211> 134
<212> PRT
<213> Mus musculus

<400> 78
Ser Pro Asp Lys Gln Ala Ala Ala Leu Pro Arg Arg Glu Arg Asn Arg
1 5 10 15
Gln Ala Ala Ala Ala Ser Pro Glu Asn Ser Arg Gly Lys Gly Arg Arg
20 25 30
Gly Gln Arg Gly Lys Asn Arg Gly Cys Val Leu Thr Ala Ile His Leu
35 40 45
Asn Val Thr Asp Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile
50 55 60
Phe Arg Tyr Cys Ser Gly Ser Cys Glu Ala Ala Glu Thr Met Tyr Asp
65 70 75 80
Lys Ile Leu Lys Asn Leu Ser Arg Ser Arg Arg Leu Thr Ser Asp Lys
85 90 95
Val Gly Gln Ala Cys Cys Arg Pro Val Ala Phe Asp Asp Asp Leu Ser
100 105 110
Phe Leu Asp Asp Ser Leu Val Tyr His Ile Leu Arg Lys His Ser Ala
115 120 125
Lys Arg Cys Gly Cys Ile
130

<210> 79
<211> 89
<212> PRT
<213> Mus musculus

<400> 79
Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
1 5 10 15
Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
20 25 30
Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
35 40 45
Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
50 55 60
Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln Gln Leu Pro
65 70 75 80
Gln Leu Ser Ala Ala Ala Cys Gly Cys
85

<210> 80
<211> 96
<212> PRT
<213> Mus musculus

<400> 80

Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala
 1 5 10 15
 Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr
 20 25 30
 Cys Ala Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val
 35 40 45
 Leu Ala Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys
 50 55 60
 Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp Gln His His
 65 70 75 80
 Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 85 90 95

<210> 81

<211> 134

<212> PRT

<213> Mus musculus

<400> 81

Val Arg Ile Pro Gly Gly Leu Pro Thr Pro Gln Phe Leu Leu Ser Lys
 1 5 10 15
 Pro Ser Leu Cys Leu Thr Ile Leu Leu Tyr Leu Ala Leu Gly Asn Asn
 20 25 30
 His Val Arg Leu Pro Arg Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser
 35 40 45
 Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu
 50 55 60
 Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Gln Glu Ala Arg
 65 70 75 80
 Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg Gly Arg Gly Arg Ala
 85 90 95
 His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe
 100 105 110
 Leu Asp Asp Gln His His Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala
 115 120 125
 Ala Cys Gly Cys Gly Gly
 130

<210> 82

<211> 89

<212> PRT

<213> Rattus norvegicus

<400> 82

Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
 1 5 10 15
 Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys

20 25 30

Pro Gln Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
35 40 45

Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
50 55 60

Ala Asp Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu Pro
65 70 75 80

Gln Leu Ser Ala Ala Ala Cys Gly Cys
85

<210> 83
<211> 91
<212> PRT
<213> Rattus norvegicus

<400> 83
Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
1 5 10 15

Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys
20 25 30

Pro Gln Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
35 40 45

Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
50 55 60

Ala Asp Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu Pro
65 70 75 80

Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
85 90

<210> 84
<211> 267
<212> DNA
<213> Mus musculus

<400> 84
tgccgactgt ggagcctgac cctaccagtg gctgagctgg gcctgggcta tgcctcggag 60
gagaaggtca tcttccgata ctgtgctggc agctgtcccc aagaggcccg taccagcac 120
agtctggtac tggcccggtc tcgagggcgg ggtcgagccc atggccgacc ctgctgccag 180
cccaccagct atgctgatgt gaccttcctt gatgatcagc accattggca gcagctgcct 240
cagctctcag ctgcagcttg tggctgt 267

<210> 85
<211> 267
<212> DNA
<213> Mus musculus

<400> 85
tgccggctgt ggagcctgac cctaccagtg gctgagcttg gcctgggcta tgcctcagag 60
gagaagatta tcttccgata ctgtgctggc agctgtcccc aagagggtccg taccagcac 120
agtctggtgc tggcccggtc tcgagggcag ggtcgagctc atggcagacc ttgctgccag 180

cccaccagct atgctgatgt gaccttcctt gatgaccacc accattggca gcagctgcct 240
cagctctcag ccgcagcttg tggctgt 267

<210> 86
<211> 273
<212> DNA
<213> Rattus norvegicus

<400> 86
tgccggctgt ggagcctgac cctaccagtg gctgagcttg gcctgggcta tgcctcagag 60
gagaagatta tcttccgata ctgtgctggc agctgtcccc aagagggtccg taccagcac 120
agtctggtgc tggcccgctct tcgagggcag ggtcgagctc atggcagacc ttgctgccag 180
cccaccagct atgctgatgt gaccttcctt gatgaccacc accattggca gcagctgcct 240
cagctctcag ccgcagcttg tggctgtggt ggc 273

<210> 87
<211> 94
<212> PRT
<213> Mus musculus

<400> 87
Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
1 5 10 15
Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
20 25 30
Glu Ser Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
35 40 45
Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
50 55 60
Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
65 70 75 80
His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys Ile
85 90

<210> 88
<211> 95
<212> PRT
<213> Mus musculus

<400> 88
Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu Leu Gly Leu Gly
1 5 10 15
Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
20 25 30
Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
35 40 45
Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala His Pro Cys Cys Arg
50 55 60
Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser Arg
65 70 75 80
Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys Val
85 90 95

<210> 89
 <211> 91
 <212> PRT
 <213> Mus musculus

<400> 89
 Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu Gly
 1 5 10 15
 Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
 20 25 30
 Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu Arg
 35 40 45
 Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr
 50 55 60
 Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln Gln Leu Pro
 65 70 75 80
 Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 85 90

<210> 90
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 <212> DNA
 <213> Rattus norvegicus

<400> 90
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22

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 <212> PRT
 <213> Rattus norvegicus

<400> 91
 Ala Ser Glu Glu Lys Ile Ile
 1 5

<210> 92
 <211> 16
 <212> PRT
 <213> Rattus norvegicus

<400> 92
 Leu Gly Leu Gly Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys
 1 5 10 15

<210> 93
 <211> 16
 <212> PRT
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<400> 93
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 1 5 10 15

<210> 94
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<213> Rattus norvegicus

<400> 94

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1 5 10 15

<210> 95

<211> 23

<212> DNA

<213> Rattus norvegicus

<400> 95

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<210> 96

<211> 26

<212> DNA

<213> Rattus norvegicus

<400> 96

tatgcctcag aggagaagat tatctt

26

<210> 97

<211> 336

<212> DNA

<213> Rattus norvegicus

<400> 97

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cccagcacag tctggtgctg gcccgctctc gagggcaggg tcgagctcat ggcagacctt 120
gctgccagcc caccagctat gctgatgtga ccttccttga tgaccaccac cattggcagc 180
agctgcctca gctctcagcc gcagcttggt gctgtggtgg ctgaaggcgg ccagcctggt 240
ctctcagaat cacaagcaag aggcagcctt tgaaaggctc aggtgacgtt attagaaact 300
tgcataggag aagattaaga agagaaaggg gacctg 336

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<212> PRT

<213> Rattus norvegicus

<400> 98

Ala Cys Cys Arg Pro Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp
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Asp

<210> 99

<211> 17

<212> PRT

<213> Rattus norvegicus

<400> 99

Pro Cys Cys Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Lys Asp
1 5 10 15

Val

<210> 100

<211> 16
 <212> PRT
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<400> 100
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 1 5 10 15

<210> 101
 <211> 26
 <212> DNA
 <213> Mus musculus

<400> 101
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<210> 102
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 <213> Mus musculus

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 1 5

<210> 104

<400> 104
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<210> 105
 <211> 544
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 cttctctcaa agccctcact ttgccttaca atcctactct accttgcaact aggtacaac 120
 catgtccgtc ttccaagagc cttggctggt tcatgccgac tgtggagcct gaccctacca 180
 gtggctgagc tgggcctggg ctatgcctcg gaggagaagg tcatcttccg atactgtgct 240
 ggcagctgtc cccaagaggc ccgtaccag cacagtctgg tactggcccg gcttcgaggg 300
 cggggtcgag cccatggccg accctgctgc cagcccacca gctatgctga tgtgacctc 360
 cttgatgatc agcaccattg gcagcagctg cctcagctct cagctgcagc ttgtggctgt 420
 ggtggctgaa ggaggccagt ctggtgtctc agaatacaca gcatgagaca ggctgggctt 480
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544

cagg

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 20 25 30
 Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp
 35 40 45
 Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu Pro Gln Leu
 50 55 60
 Ser Ala Ala Ala Cys Gly Cys Gly Gly
 65 70

<210> 107
 <211> 391
 <212> DNA
 <213> Homo sapiens

<400> 107
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 gagaagatta tcttccgata ctgtgctggc agctgtcccc aagaggtccg taccagcac 120
 agtctggtgc tggcccgctc tcgagggcag ggtcgagctc atggcagacc ttgctgccag 180
 cccaccagct atgctgatgt gaccttcctt gatgaccacc accattggca gcagctgcct 240
 cagctctcag ccgcagcttg tggctgtggt ggctgaaggc ggccagcctg gtctctcaga 300
 atcacaagca agaggcagcc tttgaaaggc tcaggtgacg ttattagaaa cttgcatagg 360
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<210> 108
 <211> 8
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 <213> Mus musculus

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<220>
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 <222> (3)
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<400> 108
 Val Xaa Xaa Leu Gly Leu Gly Tyr
 1 5

<210> 109
 <211> 8
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Alanine or Serine

<220>

<221> SITE

<222> (7)

<223> Alanine or Serine

<400> 109

Phe Arg Tyr Cys Xaa Gly Xaa Cys
1 5

<210> 110

<211> 8

<212> PRT

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<221> SITE

<222> (2)

<223> Aspartic Acid, Glutamic Acid or No Amino Acid

<220>

<221> SITE

<222> (3)

<223> Valine or Leucine

<220>

<221> SITE

<222> (4)

<223> Serine or Threonine

<220>

<221> SITE

<222> (8)

<223> Valine or Aspartic Acid .

<400> 110

Asp Xaa Xaa Xaa Phe Leu Asp Xaa
1 5

<210> 111

<211> 142

<212> PRT

<213> Mus musculus

<400> 111

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1 5 10 15

Thr Pro Gln Phe Leu Leu Ser Lys Pro Ser Leu Cys Leu Thr Ile Leu
20 25 30

Leu Tyr Leu Ala Leu Gly Asn Asn His Val Arg Leu Pro Arg Ala Leu
35 40 45

Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu
50 55 60

Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala
65 70 75 80

Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala
85 90 95

Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro
100 105 110

Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln
115 120 125

Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
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<210> 112
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<400> 112
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1 5

<210> 113
<211> 12
<212> PRT
<213> Mus musculus

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<222> (2)
<223> Threonine, Glutamic Acid or Lysine

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<222> (3)
<223> Valine, Leucine or Isoleucine

<220>
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<222> (4)
<223> Leucine or Isoleucine

<220>
<221> SITE
<222> (9)
<223> Alanine or Serine

<220>
<221> SITE
<222> (11)
<223> Alanine or Serine

<400> 113
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1 5 10

<210> 114
<211> 16
<212> PRT
<213> Mus musculus

<220>
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<222> (3)
<223> Arginine or Glutamine

<220>
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 <222> (5)
 <223> Threonine, Valine or Isoleucine

<220>
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 <222> (6)
 <223> Alanine or Serine

<220>
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 <222> (7)
 <223> Tyrosine or Phenylalanine

<220>
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 <222> (8)
 <223> Glutamic Acid, Aspartic Acid or Alanine

<220>
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 <223> Glutamic Acid, Aspartic Acid or No Amino Acid

<220>
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 <222> (11)
 <223> Valine or Leucine

<220>
 <221> SITE
 <222> (12)
 <223> Serine or Threonine

<220>
 <221> SITE
 <222> (16)
 <223> Aspartic Acid or Valine

<400> 114
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 1 5 10 15

<210> 115
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<223> w = a or t

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<223> n = a, t, c or g

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19

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<220>
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<223> w = a or t

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<223> n = a, t, c or g

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 <223> n = a, t, c or g

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 <222> (9)
 <223> y = t or c

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 <222> (12)
 <223> y = t or c

<220>
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 <223> d = a, t or g

<220>
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 <222> (14)
 <223> s = c or g

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 <222> (15)
 <223> n = a, t, c or g

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 <223> n = a, t, c or g

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 <223> d = a, t or g

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 <222> (20)
 <223> s = c or g

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13
20

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25

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 <223> Threonine, Serine or Alanine

<220>
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 <222> (3)
 <223> Glutamic Acid or Aspartic Acid

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 1 5

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 <222> (2)
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<220>
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<220>
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<220>
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 <222> (7)
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<400> 126
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 1 5

<210> 127
 <211> 8
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 <223> Serine or Alanine

<220>
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<400> 127
 Phe Arg Tyr Cys Xaa Gly Xaa Cys
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<400> 128
 Val Xaa Xaa Leu Gly Leu Gly
 1 5

<210> 129
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<220>
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<220>
 <221> SITE
 <222> (3)
 <223> Glutamic Acid or Aspartic Acid

<400> 129
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 1 5

<210> 130
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 <213> Mus musculus

<220>
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 <222> (1)
 <223> Isoleucine or Leucine

<220>
 <221> SITE
 <222> (6)

<223> Serine or Alanine

<220>

<221> SITE

<222> (8)

<223> Serine or Alanine

<400> 130

Xaa Phe Arg Tyr Cys Xaa Gly Xaa Cys
1 5

<210> 131

<211> 559

<212> DNA

<213> Mus musculus

<400> 131

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<211> 133

<212> PRT

<213> Homo sapiens

<400> 132:

Pro Asp Ala Arg Gly Val Pro Val Ala Asp Gly Glu Phe Ser Ser Glu
1 5 10 15

Gln Val Ala Lys Ala Gly Gly Thr Trp Leu Gly Thr His Arg Pro Leu
20 25 30

Ala Arg Leu Arg Arg Ala Leu Ser Gly Pro Cys Gln Leu Trp Ser Leu
35 40 45

Thr Leu Ser Val Ala Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys
50 55 60

Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Arg Gly Ala Arg Thr
65 70 75 80

Gln His Gly Leu Ala Leu Ala Arg Leu Gln Gly Gln Gly Arg Ala His
85 90 95

Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr Thr Asp Val Ala Phe Leu
100 105 110

Asp Asp Arg His Arg Trp Gln Arg Leu Pro Gln Leu Ser Ala Ala Ala
115 120 125

Cys Gly Cys Gly Gly
130

<210> 133

<400> 133
000

<210> 134
<211> 93
<212> PRT
<213> Rattus norvegicus

<400> 134
Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
1 5 10 15
Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
20 25 30
Glu Ala Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
35 40 45
Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
50 55 60
Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Ser Leu Val Tyr
65 70 75 80
His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
85 90

B
22
<210> 135
<211> 23
<212> PRT
<213> Mus musculus

<400> 135
Met Ala Ala Gly Arg Leu Arg Ile Leu Cys Leu Leu Leu Ser Leu
1 5 10 15
His Pro Ser Leu Gly Trp Val
20

<210> 136
<211> 23
<212> PRT
<213> Rattus norvegicus

<400> 136
Met Ala Ala Gly Arg Leu Arg Ile Leu Phe Leu Leu Leu Ser Leu
1 5 10 15
His Leu Gly Leu Gly Trp Val
20

<210> 137
<211> 23
<212> DNA
<213> Rattus norvegicus

<400> 137
aatccccagg acaggcaggg aat

<210> 138

<211> 35
 <212> DNA
 <213> Rattus norvegicus

<400> 138 35
 cggtacccag atcttcagcc accacagcca caagc

<210> 139
 <211> 76
 <212> DNA
 <213> Mus musculus

<400> 139 60
 ggactatcat atggcccacc accaccacca ccaccaccac gacgacgacg acaaggcctt
 76
 ggctggttca tgccga

<210> 140
 <211> 32
 <212> DNA
 <213> Mus musculus

<400> 140 32
 tgctgtcacc atggctgcag gaagacttcg ga

<210> 141
 <211> 96
 <212> PRT
 <213> Mus musculus

<400> 141
 Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala
 1 5 10 15

B
 22
 Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr
 20 25 30

Cys Ala Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val
 35 40 45

Leu Ala Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys
 50 55 60

Arg Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Val His Ser
 65 70 75 80

Arg Tyr His Thr Leu Gln Glu Leu Ser Ala Arg Glu Cys Ala Cys Val
 85 90 95

<210> 142
 <211> 23
 <212> DNA
 <213> Artificial sequence

<220>
 <221>
 <222>
 <223> Plasmid vector sequence

<400> 142 23
 taatacgact cactataggg gaa

<210> 143
 <211> 49
 <212> DNA
 <213> Mus musculus

<400> 143
tcgtcttcgt aagcagtcgg acggcagcag ggtcggccat gggctcgac

49

<210> 144
<211> 29
<212> DNA
<213> Homo sapiens

<400> 144
tgctgccgtc cgactgctta cgaagacga

29

<210> 145
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<221>
<222>
<223> Plasmid vector sequence

<400> 145
gttatgctag ttattgctca gcggt

25

<210> 146
<211> 100
<212> PRT
<213> Mus musculus

<400> 146
Pro Gly Ala Arg Pro Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser
1 5 10 15

Glu Leu Gly Leu Gly Tyr Thr Ser Asp Glu Thr Val Leu Phe Arg Tyr
20 25 30

Cys Ala Gly Ala Cys Glu Ala Ala Ile Arg Ile Tyr Asp Leu Gly Leu
35 40 45

Arg Arg Leu Arg Gln Arg Arg Arg Val Arg Arg Glu Arg Ala Arg Ala
50 55 60

His Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp
65 70 75 80

Asp Gln His His Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys
85 90 95

Gly Cys Gly Gly
100

<210> 147
<211> 50
<212> DNA
<213> Mus musculus

<400> 147
cacatcagca tagctggtgg gctggcagca cgggtgagca cgagcacgtt

50

<210> 148
<211> 25
<212> DNA
<213> Mus musculus

<400> 148
tgctgccagc ccaccagcta tgctg

25

<210> 149

<211> 23
 <212> DNA
 <213> Mus musculus

<400> 149
 cctcggagga gaaggtcatc ttc

23

<210> 150
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 150
 Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gly Trp
 1 5 10 15
 Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn Phe Cys Leu Gly
 20 25 30
 Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr Ser Lys Val Leu
 35 40 45
 Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys
 50 55 60
 Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr Tyr Val Gly Arg
 65 70 75 80
 Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val Arg Ser Cys Lys
 85 90 95
 Cys Ser

<210> 151
 <211> 98
 <212> PRT
 <213> Homo sapiens

B
22
 <400> 151
 Cys Cys Leu Arg Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp
 1 5 10 15
 Lys Trp Ile His Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly
 20 25 30
 Ala Cys Pro Tyr Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu
 35 40 45
 Ser Leu Tyr Asn Thr Ile Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys
 50 55 60
 Val Ser Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys
 65 70 75 80
 Thr Pro Lys Ile Glu Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys
 85 90 95
 Cys Ser

<210> 152
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 152
 Cys Cys Val Arg Pro Leu Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp

1 5 10 15
 Lys Trp Val His Glu Pro Lys Gly Tyr Tyr Ala Asn Phe Cys Ser Gly
 20 25 30
 Pro Cys Pro Tyr Leu Arg Ser Ala Asp Thr Thr His Ser Thr Val Leu
 35 40 45
 Gly Leu Tyr Asn Thr Leu Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys
 50 55 60
 Val Pro Gln Asp Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Val Gly Arg
 65 70 75 80
 Thr Pro Lys Val Glu Gln Leu Ser Asn Met Val Val Lys Ser Cys Lys
 85 90 95

Cys Ser

<210> 153
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 153
 Cys Cys Lys Lys Gln Phe Phe Val Ser Phe Lys Asp Ile Gly Trp Asn
 1 5 10 15

Asp Trp Ile Ile Ala Pro Ser Gly Tyr His Ala Asn Tyr Cys Glu Gly
 20 25 30

Glu Cys Pro Ser His Ile Ala Gly Thr Ser Gly Ser Ser Leu Ser Phe
 35 40 45

His Ser Thr Val Ile Asn His Tyr Arg Met Arg Gly His Ser Pro Phe
 50 55 60

Ala Asn Leu Lys Ser Cys Cys Val Pro Thr Lys Leu Arg Pro Met Ser
 65 70 75 80

Met Leu Tyr Tyr Asp Asp Gly Gln Asn Ile Ile Lys Lys Asp Ile Gln
 85 90 95

Asn Met Ile Val Glu Glu Cys Gly Cys Ser
 100 105

<210> 154
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 154
 Cys Cys Arg Gln Gln Phe Phe Ile Asp Phe Arg Leu Ile Gly Trp Asn
 1 5 10 15

Asp Trp Ile Ile Ala Pro Thr Gly Tyr Tyr Gly Asn Tyr Cys Glu Gly
 20 25 30

Ser Cys Pro Ala Tyr Leu Ala Gly Val Pro Gly Ser Ala Ser Ser Phe
 35 40 45

His Thr Ala Val Val Asn Gln Tyr Arg Met Arg Gly Leu Asn Pro Gly
 50 55 60

Thr Val Asn Ser Cys Cys Ile Pro Thr Lys Leu Ser Thr Met Ser Met
 65 70 75 80

Leu Tyr Phe Asp Asp Glu Tyr Asn Ile Val Lys Arg Asp Val Pro Asn
 85 90 95

Met Ile Val Glu Cys Gly Cys Ala
 100 105

<210> 155
 <211> 101
 <212> PRT
 <213> Mus musculus

<400> 155
 Cys Arg Arg Val Lys Phe Gln Val Asp Phe Asn Leu Ile Gly Trp Gly
 1 5 10 15

Ser Trp Ile Ile Tyr Pro Lys Gln Tyr Asn Ala Tyr Arg Cys Glu Gly
 20 25 30

Glu Cys Pro Asn Pro Val Gly Glu Glu Phe His Pro Thr Asn His Ala
 35 40 45

Tyr Ile Gln Ser Leu Leu Lys Arg Tyr Gln Pro His Arg Val Pro Ser
 50 55 60

Thr Cys Cys Ala Pro Val Lys Thr Lys Pro Leu Ser Met Leu Tyr Val
 65 70 75 80

Asp Asn Gly Arg Val Leu Leu Glu His His Lys Asp Met Ile Val Glu
 85 90 95

Glu Cys Gly Cys Leu
 100

<210> 156
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 156
 Cys Lys Arg His Pro Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn
 1 5 10 15

Asp Trp Ile Val Ala Pro Pro Gly Tyr His Ala Phe Tyr Cys His Gly
 20 25 30

Glu Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala
 35 40 45

Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser Lys Ile Pro Lys Ala
 50 55 60

Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp
 65 70 75 80

Glu Asn Glu Lys Val Val Leu Lys Asn Tyr Gln Asp Met Val Val Glu
 85 90 95

Gly Cys Gly Cys Arg
 100

<210> 157
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 157

Cys Arg Arg His Ser Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asn

1 5 10 15
 Asp Trp Ile Val Ala Pro Pro Gly Tyr Gln Ala Phe Tyr Cys His Gly
 20 25 30
 Asp Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr Asn His Ala
 35 40 45
 Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser Ser Ile Pro Lys Ala
 50 55 60
 Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp
 65 70 75 80
 Glu Tyr Asp Lys Val Val Leu Lys Asn Tyr Gln Glu Met Val Val Glu
 85 90 95
 Gly Cys Gly Cys Arg
 100

<210> 158
 <211> 102
 <212> PRT
 <213> Drosophila melanogaster

<400> 158

Cys Arg Arg His Ser Leu Tyr Val Asp Phe Ser Asp Val Gly Trp Asp
 1 5 10 15
 Asp Trp Ile Val Ala Pro Leu Gly Tyr Asp Ala Tyr Tyr Cys His Gly
 20 25 30
 Lys Cys Pro Phe Pro Leu Ala Asp His Phe Asn Ser Thr Asn His Ala
 35 40 45
 Val Val Gln Thr Leu Val Asn Asn Met Asn Pro Gly Lys Val Pro Lys
 50 55 60
 Ala Cys Cys Val Pro Thr Gln Leu Asp Ser Val Ala Met Leu Tyr Leu
 65 70 75 80
 Asn Asp Gln Ser Thr Val Val Leu Lys Asn Tyr Gln Glu Met Thr Val
 85 90 95
 Val Gly Cys Gly Cys Arg
 100

<210> 159
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 159

Cys Lys Lys His Glu Leu Tyr Val Ser Phe Arg Asp Leu Gly Trp Gln
 1 5 10 15
 Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala Phe Tyr Cys Asp Gly
 20 25 30
 Glu Cys Ser Phe Pro Leu Asn Ala His Met Asn Ala Thr Asn His Ala
 35 40 45
 Ile Val Gln Thr Leu Val His Leu Met Phe Pro Asp His Val Pro Lys
 50 55 60
 Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile Ser Val Leu Tyr Phe
 65 70 75 80

Asp Asp Ser Ser Asn Val Ile Leu Lys Lys Tyr Arg Asn Met Val Val
 85 90 95

Arg Ser Cys Gly Cys His
 100

<210> 160
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 160
 Cys Arg Lys His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Gln
 1 5 10 15

Asp Trp Ile Ile Ala Pro Lys Gly Tyr Ala Ala Asn Tyr Cys Asp Gly
 20 25 30

Glu Cys Ser Phe Pro Leu Asn Ala His Met Asn Ala Thr Asn His Ala
 35 40 45

Ile Val Gln Thr Leu Val His Leu Met Asn Pro Glu Tyr Val Pro Lys
 50 55 60

Pro Cys Cys Ala Pro Thr Lys Leu Asn Ala Ile Ser Val Leu Tyr Phe
 65 70 75 80

Asp Asp Asn Ser Asn Val Ile Leu Lys Lys Tyr Arg Asn Met Val Val
 85 90 95

Arg Ala Cys Gly Cys His
 100

<210> 161
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 161
 Cys Lys Lys His Glu Leu Tyr Val Ser Phe Arg Asp Leu Gly Trp Gln
 1 5 10 15

Asp Trp Ile Ile Ala Pro Glu Gly Tyr Ala Ala Tyr Tyr Cys Glu Gly
 20 25 30

Glu Cys Ala Phe Pro Leu Asn Ser Tyr Met Asn Ala Thr Asn His Ala
 35 40 45

Ile Val Gln Thr Leu Val His Phe Ile Asn Pro Glu Thr Val Pro Lys
 50 55 60

Pro Cys Cys Ala Pro Thr Gln Leu Asn Ala Ile Ser Val Leu Tyr Phe
 65 70 75 80

Asp Asp Ser Ser Asn Val Ile Leu Lys Lys Tyr Arg Asn Met Val Val
 85 90 95

Arg Ala Cys Gly Cys His
 100

<210> 162
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 162
 Cys Arg Arg His Glu Leu Tyr Val Ser Phe Gln Asp Leu Gly Trp Leu

1 5 10 15
 Asp Trp Val Ile Ala Pro Gln Gly Tyr Ser Ala Tyr Tyr Cys Glu Gly
 20 25 30
 Glu Cys Ser Phe Pro Leu Asp Ser Cys Met Asn Ala Thr Asn His Ala
 35 40 45
 Ile Leu Gln Ser Leu Val His Leu Met Lys Pro Asn Ala Val Pro Lys
 50 55 60
 Ala Cys Cys Ala Pro Thr Lys Leu Ser Ala Thr Ser Val Leu Tyr Tyr
 65 70 75 80
 Asp Ser Ser Asn Asn Val Ile Leu Arg Lys His Arg Asn Met Val Val
 85 90 95
 Lys Ala Cys Gly Cys His
 100

<210> 163
 <211> 102
 <212> PRT
 <213> Drosophila

<400> 163
 Cys Gln Met Gln Thr Leu Tyr Ile Asp Phe Lys Asp Leu Gly Trp His
 1 5 10 15
 Asp Trp Ile Ile Ala Pro Glu Gly Tyr Gly Ala Phe Tyr Cys Ser Gly
 20 25 30
 Glu Cys Asn Phe Pro Leu Asn Ala His Met Asn Ala Thr Asn His Ala
 35 40 45
 Ile Val Gln Thr Leu Val His Leu Leu Glu Pro Lys Lys Val Pro Lys
 50 55 60
 Pro Cys Cys Ala Pro Thr Arg Leu Gly Ala Leu Pro Val Leu Tyr His
 65 70 75 80
 Leu Asn Asp Glu Asn Val Asn Leu Lys Lys Tyr Arg Asn Met Ile Val
 85 90 95
 Lys Ser Cys Gly Cys His
 100

<210> 164
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 164
 Cys Ala Arg Arg Tyr Leu Lys Val Asp Phe Ala Asp Ile Gly Trp Ser
 1 5 10 15
 Glu Trp Ile Ile Ser Pro Lys Ser Phe Asp Ala Tyr Tyr Cys Ser Gly
 20 25 30
 Ala Cys Gln Phe Pro Met Pro Lys Ser Leu Lys Pro Ser Asn His Ala
 35 40 45
 Thr Ile Gln Ser Ile Val Arg Ala Val Gly Val Val Pro Gly Ile Pro
 50 55 60
 Glu Pro Cys Cys Val Pro Glu Lys Met Ser Ser Leu Ser Ile Leu Phe
 65 70 75 80

Phe Asp Glu Asn Lys Asn Val Val Leu Lys Val Tyr Pro Asn Met Thr
 85 90 95

Val Glu Ser Cys Ala Cys Arg
 100

<210> 165
 <211> 102
 <212> PRT
 <213> *Xenopus laevis*

<400> 165
 Cys Lys Lys Arg His Leu Tyr Val Glu Phe Lys Asp Val Gly Trp Gln
 1 5 10 15

Asn Trp Val Ile Ala Pro Gln Gly Tyr Met Ala Asn Tyr Cys Tyr Gly
 20 25 30

Glu Cys Pro Tyr Pro Leu Thr Glu Ile Leu Asn Gly Ser Asn His Ala
 35 40 45

Ile Leu Gln Thr Leu Val His Ser Ile Glu Pro Glu Asp Ile Pro Leu
 50 55 60

Pro Cys Cys Val Pro Thr Lys Met Ser Pro Ile Ser Met Leu Phe Tyr
 65 70 75 80

Asp Asn Asn Asp Asn Val Val Leu Arg His Tyr Glu Asn Met Ala Val
 85 90 95

Asp Glu Cys Gly Cys Arg
 100

<210> 166
 <211> 106
 <212> PRT
 <213> *Homo sapiens*

B₂₂ <400> 166
 Cys Arg Ala Arg Leu Tyr Val Ser Phe Arg Glu Val Gly Trp His
 1 5 10 15

Arg Trp Val Ile Ala Pro Arg Gly Phe Leu Ala Asn Tyr Cys Gln Gly
 20 25 30

Gln Cys Ala Leu Pro Val Ala Leu Ser Gly Ser Gly Gly Pro Pro Ala
 35 40 45

Leu Asn His Ala Val Leu Arg Ala Leu Met His Ala Ala Ala Pro Gly
 50 55 60

Ala Ala Asp Leu Pro Cys Cys Val Pro Ala Arg Leu Ser Pro Ile Ser
 65 70 75 80

Val Leu Phe Phe Asp Asn Ser Asp Asn Val Val Leu Arg Gln Tyr Glu
 85 90 95

Asp Met Val Val Asp Glu Cys Gly Cys Arg
 100 105

<210> 167
 <211> 101
 <212> PRT
 <213> *Mus musculus*

<400> 167
 Cys His Arg His Gln Leu Phe Ile Asn Phe Gln Asp Leu Gly Trp His
 1 5 10 15

Lys Trp Val Ile Ala Pro Lys Gly Phe Met Ala Asn Tyr Cys His Gly
20 25 30

Glu Cys Pro Phe Ser Met Thr Thr Tyr Leu Asn Ser Ser Asn Tyr Ala
35 40 45

Phe Met Gln Ala Leu Met His Met Ala Asp Pro Lys Val Pro Lys Ala
50 55 60

Val Cys Val Pro Thr Lys Leu Ser Pro Ile Ser Met Leu Tyr Gln Asp
65 70 75 80

Ser Asp Lys Asn Val Ile Leu Arg His Tyr Glu Asp Met Val Val Asp
85 90 95

Glu Cys Gly Cys Gly
100

<210> 168

<211> 103

<212> PRT

<213> Gallus gallus

<400> 168

Cys Arg Arg Thr Ser Leu His Val Asn Phe Lys Glu Ile Gly Trp Asp
1 5 10 15

Ser Trp Ile Ile Ala Pro Lys Asp Tyr Glu Ala Phe Glu Cys Lys Gly
20 25 30

Gly Cys Phe Phe Pro Leu Thr Asp Asn Val Thr Pro Thr Lys His Ala
35 40 45

Ile Val Gln Thr Leu Val His Leu Gln Asn Pro Lys Lys Ala Ser Lys
50 55 60

B₂₂ Ala Cys Cys Val Pro Thr Lys Leu Asp Ala Ile Ser Ile Leu Tyr Lys
65 70 75 80

Asp Asp Ala Gly Val Pro Thr Leu Ile Tyr Asn Tyr Glu Gly Met Lys
85 90 95

Val Ala Glu Cys Gly Cys Arg
100

<210> 169

<211> 105

<212> PRT

<213> Homo sapiens

<400> 169

Cys His Arg Val Ala Leu Asn Ile Ser Phe Gln Glu Leu Gly Trp Glu
1 5 10 15

Arg Trp Ile Val Tyr Pro Pro Ser Phe Ile Phe His Tyr Cys His Gly
20 25 30

Gly Cys Gly Leu His Ile Pro Pro Asn Leu Ser Leu Pro Val Pro Gly
35 40 45

Ala Pro Pro Thr Pro Ala Gln Pro Tyr Ser Leu Leu Pro Gly Ala Gln
50 55 60

Pro Cys Cys Ala Ala Leu Pro Gly Thr Met Arg Pro Leu His Val Arg
65 70 75 80

Thr Thr Ser Asp Gly Gly Tyr Ser Phe Lys Tyr Glu Thr Val Pro Asn

85

90

95

Leu Leu Thr Gln His Cys Ala Cys Ile
100 105

<210> 170
<211> 99
<212> PRT
<213> Homo sapiens

<400> 170
Cys Ala Leu Arg Glu Leu Ser Val Asp Leu Arg Ala Glu Arg Ser Val
1 5 10 15

Leu Ile Pro Glu Thr Tyr Gln Ala Asn Asn Cys Gln Gly Ala Cys Gly
20 25 30

Trp Pro Gln Ser Asp Arg Asn Pro Arg Tyr Gly Asn His Val Val Leu
35 40 45

Leu Leu Lys Met Gln Ala Arg Gly Ala Thr Leu Ala Arg Pro Pro Cys
50 55 60

Cys Val Pro Thr Ala Tyr Thr Gly Lys Leu Leu Ile Ser Leu Ser Glu
65 70 75 80

Glu Arg Ile Ser Ala His His Val Pro Asn Met Val Ala Thr Glu Cys
85 90 95

Gly Cys Arg

<210> 171
<211> 102
<212> PRT
<213> Homo sapiens

<400> 171
Cys Glu Leu His Asp Phe Ser Leu Ser Phe Ser Gln Leu Lys Trp Asp
1 5 10 15

Asn Trp Ile Val Ala Pro His Ser Tyr Asn Pro Ser Tyr Cys Lys Gly
20 25 30

Asp Cys Pro Ser Ala Val Ser His Arg Tyr Gly Ser Pro Val His Thr
35 40 45

Met Val Gln Asn Met Ile Tyr Glu Lys Leu Asp Pro Ser Val Pro Ser
50 55 60

Pro Ser Cys Val Pro Gly Lys Tyr Ser Pro Leu Ser Val Leu Thr Ile
65 70 75 80

Glu Pro Asp Gly Ser Ile Ala Tyr Lys Glu Tyr Glu Asp Met Met Ala
85 90 95

Thr Ser Cys Thr Cys Arg
100

<210> 172
<211> 94
<212> PRT
<213> Homo sapiens

<400> 172
Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
1 5 10 15

Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
20 25 30

Asp Ala Ala Glu Thr Thr Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
35 40 45

Asn Arg Arg Leu Val Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
50 55 60

Ile Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
65 70 75 80

His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys Ile
85 90

<210> 173

<211> 95

<212> PRT

<213> Homo sapiens

<400> 173

Cys Gly Leu Arg Glu Leu Glu Val Arg Val Ser Glu Leu Gly Leu Gly
1 5 10 15

Tyr Ala Ser Asp Glu Thr Val Leu Phe Arg Tyr Cys Ala Gly Ala Cys
20 25 30

Glu Ala Ala Ala Arg Val Tyr Asp Leu Gly Leu Arg Arg Leu Arg Gln
35 40 45

Arg Arg Arg Leu Arg Arg Glu Arg Val Arg Ala Gln Pro Cys Cys Arg
50 55 60

Pro Thr Ala Tyr Glu Asp Glu Val Ser Phe Leu Asp Ala His Ser Arg
65 70 75 80

Tyr His Thr Val His Glu Leu Ser Ala Arg Glu Cys Ala Cys Val
85 90 95

<210> 174

<211> 37

<212> PRT

<213> Mus musculus

<400> 174

Leu Asp Leu Gln Glu Ala Ser Val Ala Asp Lys Leu Ser Phe Gly Lys
1 5 10 15

Met Ala Glu Thr Arg Gly Thr Trp Thr Pro His Gln Gly Asn Asn His
20 25 30

Val Arg Leu Pro Arg
35

<210> 175

<211> 37

<212> PRT

<213> Rattus norvegicus

<400> 175

Leu Asp Leu Gln Glu Ala Pro Ala Ala Asp Glu Leu Ser Ser Gly Lys
1 5 10 15

Met Ala Glu Thr Gly Arg Thr Trp Lys Pro His Gln Gly Asn Asn Asn
20 25 30

Val Arg Leu Pro Arg
35

<210> 176
 <211> 93
 <212> PRT
 <213> Mus musculus

<400> 176
 Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
 1 5 10 15
 Tyr Glu Thr Lys Glu Glu Leu Ile Phe Arg Tyr Cys Ser Gly Ser Cys
 20 25 30
 Glu Ser Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
 35 40 45
 Ser Arg Arg Leu Thr Ser Asp Lys Val Gly Gln Ala Cys Cys Arg Pro
 50 55 60
 Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Asn Leu Val Tyr
 65 70 75 80
 His Ile Leu Arg Lys His Ser Ala Lys Arg Cys Gly Cys
 85 90

<210> 177
 <211> 723
 <212> DNA
 <213> Mus musculus

<400> 153
 atggctgcag gaagacttcg gatacctgtgt ctgctgctcc tgccttgca cccgagcctc 60
 ggctgggtcc ttgatcttca agaggcttct gtggcagata agctctcatt tgggaagatg 120
 gcagagactc gagggacctg gacgccccat cagggtaaga attcctgggg gcctcccgac 180
 tccccaatc cttctctcaa agccctcatc ttgccttaca atcctactct accttgcact 240
 aggtacaac catgtccgtc ttccaagacg cttggctggt tcatgccgac tgtggagcct 300
 gaccctacca gtggctgagc tgggcctggg ctatgcctcg gaggagaagg tcatcttccg 360
 atactgtgct ggcagctgtc cccaagaggc ccgtaccag cacagtctgg tactggcccg 420
 gcttcgaggg cggggctgag cccatggccg accctgctgc cagcccacca gctatgctga 480
 tgtgaccttc cttgatgatc agcaccattg gcagcagctg cctcagctct cagctgcagc 540
 ttgtggctgt ggtggctgaa ggaggccagt ctggtgtctc agaatcaca gcatgagaca 600
 ggctgggctt tgaaaggctc aggtgacatt actagaaatt tgcataaggta aagataagaa 660
 gggaaaggac caggggtttt ttgtttcttt ctttgcttgc ttgttagttt tttttttttt 720
 ttt 723

<210> 178
 <211> 723
 <212> DNA
 <213> Mus musculus

<400> 178
 aaaaaaaaa aaaaaactaa caagcaagca aagaaagaaa caaaaaaccc ctggtccttt 60
 cccttcttat ctttacctat gcaatttct agtaatgtca cctgagcctt tcaaagccca 120
 gcctgtctca tgcttgtgat tctgagacac cagactggcc tccttcagcc accacagcca 180

caagctgcag ctgagagctg aggcagctgc tgccaatggt gctgatcatc aaggaaggctc 240
 acatcagcat agctggtggg ctggcagcag ggtcggccat gggctcgacc ccgccctcga 300
 agccggggcca gtaccagact gtgctgggta cgggcctctt ggggacagct gccagcacag 360
 tatcggaaga tgaccttctc ctccgaggca tagcccaggc ccagctcagc cactggtagg 420
 gtcaggctcc acagtcggca tgaaccagcc aaggctcttg gaagacggac atggttgta 480
 cctagtgcaa ggtagagtag gattgtaagg caaagtgagg gctttgagag aaggaattgg 540
 ggagtcggga ggcccccagg aattcttacc ctgatggggc gtccaggctc ctctagtctc 600
 tgccatcttc ccaaagaga gcttatctgc cacagaagcc tcttgaagat caaggaccca 660
 gccgaggctc gggtgcaagg acaggagcag cagacacagg atccgaagtc ttctgcagc 720
 cat 723

<210> 179
 <211> 471
 <212> DNA
 <213> Mus musculus

<400> 179
 atggctgcag gaagacttcg gatcctgtgt ctgctgctcc tgccttgca cccgagcctc 60
 ggctgggtcc ttgatcttca agaggcttct gtggcagata agctctcatt tgggaagatg 120
 gcagagacta gagggacctg gacgccccat cagggttaaca accatgtccg tcttccaaga 180
 gccttggtctg gttcatgccg actgtggagc ctgaccctac cagtggctga gctgggcctg 240
 ggctatgcct cggaggagaa ggtcatcttc cgatactgtg ctggcagctg tccccaaag 300
 gcccgtaacc agcacagtct ggtactggcc cggcttcgag ggccggggtcg agcccatggc 360
 cgaccctgct gccagccac cagctatgct gatgtgacct tccttgatga tcagcaccat 420
 tggcagcagc tgcctcagct ctcagctgca gcttggtggct gtggtggctg a 471

<210> 180
 <211> 106
 <212> DNA
 <213> Mus musculus

<400> 180
 tcagccacca cagccacaag ctgcagctga gagctgaggc agctgctgcc aatggtgctg 60
 atcatcaagg aaggtcacat cagcatagct ggtgggctgg cagcagggtc ggccatgggc 120
 tcgacccgc cctegaagcc gggccagtac cagactgtgc tgggtacggg cctcttgggg 180
 acagctgcca gcacagtatc ggaagatgac cttctcctcc gaggcatagc ccaggcccag 240
 ctgagccact ggtagggtca ggctccacag tcggcatgaa ccagccaagg ctcttggaag 300
 acggacatgg ttgttaccct gatggggcgt ccaggctcct ctagtctctg ccattctccc 360
 aatgagagc ttatctgcca cagaagcctc ttgaagatca aggaccagc cgaggctcgg 420
 gtgcaaggac aggagcagca gacacaggat ccgaagtctt cctgcagcca t 471

<210> 181
 <211> 180
 <212> DNA

<213> Mus musculus

<400> 181
atggctgcag gaagacttcg gatcctgtgt ctgctgctcc tgccttgca cccgagcctc 60
ggctgggtcc ttgatcttca agaggcttct gtggcagata agctctcatt tgggaagatg 120
gcagagacta gagggacctg gacgccccat cagggttaaca accatgtccg tcttccaaga 180

<210> 182
<211> 180
<212> DNA
<213> Mus musculus

<400> 182
tcttgaaga cggacatggt tgttaccctg atggggcgctc caggtcctc tagtctctgc 60
catcttccca aatgagagct tatctgccac agaagcctct tgaagatcaa ggaccagcc 120
gaggctcggg tgcaaggaca ggagcagcag acacaggatc cgaagtcttc ctgcagccat 180

<210> 183
<211> 291
<212> DNA
<213> Mus musculus

<400> 183
gccttggtg gttcatgccg actgtggagc ctgaccctac cagtggctga gctgggcctg 60
ggctatgcct cggaggagaa ggtcatcttc cgatactgtg ctggcagctg tccccaagag 120
gcccgtaccc agcacagtct ggtactggcc cggcttcgag ggcggggctc agcccatggc 180
cgaccctgct gccagccac cagctatgct gatgtgacct tccttgatga tcagcaccat 240
tggcagcagc tgcctcagct ctgagctgca gcttgtggct gtggtggctg a 291

B2
<210> 184
<211> 291
<212> DNA
<213> Mus musculus

<400> 184
tcagccacca cagccacaag ctgcagctga gagctgaggc agctgctgcc aatggtgctg 60
atcatcaagg aaggtcacat cagcatagct ggtgggctgg cagcagggtc ggccatgggc 120
tcgacccgc cctcgaagcc gggccagtac cagactgtgc tgggtacggg cctcttggg 180
acagctgcca gcacagtatc ggaagatgac cttctcctcc gaggcatagc ccaggcccag 240
ctcagccact ggtagggtca ggctccacag tcggcatgaa ccagccaagg c 291

<210> 185
<211> 156
<212> PRT
<213> Mus musculus

<400> 185
Met Ala Ala Gly Arg Leu Arg Ile Leu Cys Leu Leu Leu Ser Leu
1 5 10 15
His Pro Ser Leu Gly Trp Val Leu Asp Leu Gln Glu Ala Ser Val Ala
20 25 30
Asp Lys Leu Ser Phe Gly Lys Met Ala Glu Thr Arg Gly Thr Trp Thr
35 40 45

Pro His Gln Gly Asn Asn His Val Arg Leu Pro Arg Ala Leu Ala Gly
50 55 60

Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu
65 70 75 80

Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser
85 90 95

Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu
100 105 110

Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser
115 120 125

Tyr Ala Asp Val Thr Phe Leu Asp Asp Gln His His Trp Gln Gln Leu
130 135 140

Pro Gln Leu Ser Ala Ala Cys Gly Cys Gly Gly
145 150 155

<210> 186
<211> 60
<212> PRT
<213> Mus musculus

<400> 186
Met Ala Ala Gly Arg Leu Arg Ile Leu Cys Leu Leu Leu Ser Leu
1 5 10 15

His Pro Ser Leu Gly Trp Val Leu Asp Leu Gln Glu Ala Ser Val Ala
20 25 30

Asp Lys Leu Ser Phe Gly Lys Met Ala Glu Thr Arg Gly Thr Trp Thr
35 40 45

Pro His Gln Gly Asn Asn His Val Arg Leu Pro Arg
50 55 60

<210> 187
<211> 96
<212> PRT
<213> Mus musculus

<400> 187
Ala Leu Ala Gly Ser Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala
1 5 10 15

Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr
20 25 30

Cys Ala Gly Ser Cys Pro Gln Glu Ala Arg Thr Gln His Ser Leu Val
35 40 45

Leu Ala Arg Leu Arg Gly Arg Gly Arg Ala His Gly Arg Pro Cys Cys
50 55 60

Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp Gln His His
65 70 75 80

Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala Cys Gly Cys Gly Gly
85 90 95

<210> 188
<211> 559
<212> DNA
<213> Rattus norvegicus

<400> 188
 atggctgcag gaagacttcg gatcttggtt ctgctgctcc tgccttgca cctgggcctt 60
 ggctgggtcc ttgatcttca agaggctcct gcggcagatg agctctcatc tgggaaaatg 120
 gcagagactg gaaggacctg gaagcccat cagggttaaga attcttgagg gcctcctaac 180
 tctacagttc ttcctctcaa agccctcact ttgcctcaca atcctattct accttgcaact 240
 aggtaacaac aatgtccgcc ttccaagagc cttacctggt ttgtgccggc tgtggagcct 300
 gaccctacca gtggctgagc ttggcctggg ctatgcctca gaggagaaga ttatcttccg 360
 atactgtgct ggcagctgtc cccaagaggt ccgtaccag cacagtctgg tgctggccc 420
 tcttcgaggg cagggtcgag ctcatggcag accttgctgc cagccacca gctatgtga 480
 tgtgaccttc cttgatgacc accaccattg gcagcagctg cctcagctct cagccgcagc 540
 ttgtggctgt ggtggctga 559

<210> 189
 <211> 559
 <212> DNA
 <213> Rattus norvegicus

<400> 189
 tcagccacca cagccacaag ctgcggctga gagctgaggc agctgctgcc aatggtggtg 60
 gtcatcaagg aaggtcacat cagcatagct ggtgggctgg cagcaaggtc tgccatgagc 120
 tcgaccctgc cctcgaagac gggccagcac cagactgtgc tgggtacgga cctcttgagg 180
 acagctgcc a gcacagtatc ggaagataat cttctcctct gaggcatagc ccaggccaag 240
 ctcagccact ggtagggta ggctccacag ccggcacaaa ccaggtaagg ctcttggaag 300
 gcggacattg ttgttaccta gtgcaaggta gaataggatt gtgaggcaaa gtgagggtt 360
 tgagaggaag aactgtagag ttaggaggcc cccaagaatt cttaccctga tggggcttcc 420
 aggtccttcc agtctctgcc attttcccag atgagagctc atctgccgca ggagcctctt 480
 gaagatcaag gaccagcca aggccaggt gcaaggacag gagcagcaga aacaagatcc 540
 gaagtcttcc tgcagccat 559

<210> 190
 <211> 471
 <212> DNA
 <213> Rattus norvegicus

<400> 190
 atggctgcag gaagacttcg gatcttggtt ctgctgctcc tgccttgca cctgggcctt 60
 ggctgggtcc ttgatcttca agaggctcct gcggcagatg agctctcatc tgggaaaatg 120
 gcagagactg gaaggacctg gaagcccat cagggttaaca acaatgtccg ccttccaaga 180
 gccttacctg gtttgtgccg gctgtggagc ctgaccctac cagtggctga gcttggcctg 240
 ggctatgcct cagaggagaa gattatcttc cgatactgtg ctggcagctg tccccagag 300
 gtccgtaccc agcacagtct ggtgctggcc cgtcttcgag ggcagggtcg agctcatggc 360
 agaccttget gccagccac cagctatgct gatgtgacct tccttgatga ccaccacat 420
 tggcagcagc tgcctcagct ctcagccgca gcttgggtgt ggtgtggctg a 471

<210> 191
 <211> 471
 <212> DNA
 <213> Rattus norvegicus

<400> 191
 tcagccacca cagccacaag ctgctggctga gagctgaggc agctgctgcc aatggtggtg 60
 gtcatcaagg aaggtcacat cagcatagct ggtgggctgg cagcaaggtc tgccatgagc 120
 tcgaccctgc cctcgaagac gggccagcac cagactgtgc tgggtacgga cctcttgggg 180
 acagctgccca gcacagtatc ggaagataat cttctcctct gaggcatagc ccaggccaag 240
 ctacgccact ggtagggtca ggctccacag ccggcacaaa ccaggtaagg ctcttggaag 300
 gcggacattg ttgttacct gatggggctt ccaggctcct ccagtctctg ccattttccc 360
 agatgagagc tcatctgccg caggagcctc ttgaagatca aggaccagc caaggcccag 420
 gtgcaaggac aggagcagca gaaacaagat ccgaagtctt cctgcagcca t 471

<210> 192
 <211> 180
 <212> DNA
 <213> Rattus norvegicus

<400> 192
 atggctgcag gaagacttcg gatcttgttt ctgctgctcc tgtccttgca cctgggcctt 60
 ggctgggtcc ttgatcttca agaggctcct gcggcagatg agctctcatc tgggaaaatg 120
 gcagagactg gaaggacctg gaagccccat cagggttaaca acaatgtccg ccttccaaga 180

<210> 193
 <211> 180
 <212> DNA
 <213> Rattus norvegicus

<400> 193
 tcttgggaagg cggacattgt tggtaccctg atggggcttc caggctcttc cagtctctgc 60
 cattttccca gatgagagct catctgccgc aggagcctct tgaagatcaa ggaccagcc 120
 aaggcccagg tgcaaggaca ggagcagcag aaacaagatc cgaagtcttc ctgcagccat 180

<210> 194
 <211> 291
 <212> DNA
 <213> Rattus norvegicus

<400> 194
 gccttacctg gtttgtgccg gctgtggagc ctgaccctac cagtggctga gcttggcctg 60
 ggctatgcct cagaggagaa gattatcttc cgatactgtg ctggcagctg tccccagag 120
 gtccgtaccc agcacagtct ggtgctggcc cgtcttcgag ggcagggtcg agctcatggc 180
 agaccttgct gccagcccac cagctatgct gatgtgacct tccttgatga ccaccacat 240
 tggcagcagc tgcctcagct ctacgccga gcttgtggct gtggtggctg a 291

<210> 195
 <211> 291
 <212> DNA
 <213> Rattus norvegicus

<400> 195.
 tcagccacca cagccacaag ctgcggctga gagctgaggc agctgctgcc aatgggtggtg 60
 gtcatcaagg aaggtcacat cagcatagct ggtgggctgg cagcaaggtc tgccatgagc 120
 tcgaccctgc cctcgaagac gggccagcac cagactgtgc tgggtacgga cctcttgggg 180
 acagctgccca gcacagtatc ggaagataat cttctcctct gaggcatagc ccaggccaag 240
 ctcagccact ggtaggggtca ggctccacag ccggcacaaa ccaggtaagg c 291

<210> 196
 <211> 156
 <212> PRT
 <213> Rattus norvegicus

<400> 196
 Met Ala Ala Gly Arg Leu Arg Ile Leu Phe Leu Leu Leu Ser Leu
 1 5 10 15
 His Leu Gly Leu Gly Trp Val Leu Asp Leu Gln Glu Ala Pro Ala Ala
 20 25 30
 Asp Glu Leu Ser Ser Gly Lys Met Ala Glu Thr Gly Arg Thr Trp Lys
 35 40 45
 Pro His Gln Gly Asn Asn Asn Val Arg Leu Pro Arg Ala Leu Pro Gly
 50 55 60
 Leu Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala Glu Leu Gly Leu
 65 70 75 80
 Gly Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser
 85 90 95
 Cys Pro Gln Glu Val Arg Thr Gln His Ser Leu Val Leu Ala Arg Leu
 100 105 110
 Arg Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser
 115 120 125
 Tyr Ala Asp Val Thr Phe Leu Asp Asp His His His Trp Gln Gln Leu
 130 135 140
 Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 145 150 155

<210> 197
 <211> 60
 <212> PRT
 <213> Rattus norvegicus

<400> 197
 Met Ala Ala Gly Arg Leu Arg Ile Leu Phe Leu Leu Leu Ser Leu
 1 5 10 15
 His Leu Gly Leu Gly Trp Val Leu Asp Leu Gln Glu Ala Pro Ala Ala
 20 25 30
 Asp Glu Leu Ser Ser Gly Lys Met Ala Glu Thr Gly Arg Thr Trp Lys
 35 40 45
 Pro His Gln Gly Asn Asn Asn Val Arg Leu Pro Arg
 50 55 60

<210> 198
 <211> 96
 <212> PRT

<213> Rattus norvegicus

<400> 198

Ala Leu Pro Gly Leu Cys Arg Leu Trp Ser Leu Thr Leu Pro Val Ala
 1 5 10 15
 Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Ile Ile Phe Arg Tyr
 20 25 30
 Cys Ala Gly Ser Cys Pro Gln Glu Val Arg Thr Gln His Ser Leu Val
 35 40 45
 Leu Ala Arg Leu Arg Gly Gln Gly Arg Ala His Gly Arg Pro Cys Cys
 50 55 60
 Gln Pro Thr Ser Tyr Ala Asp Val Thr Phe Leu Asp Asp His His His
 65 70 75 80
 Trp Gln Gln Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 85 90 95

<210> 199

<211> 291

<212> DNA

<213> Homo sapiens

<400> 199

gccctgtctg gtccatgcc a gctgtggagc ctgaccctgt ccgtggcaga gctaggcctg 60
 ggctacgcct cagaggagaa ggtcatcttc cgctactgcg ccggcagctg cccccgtggt 120
 gcccgacccc agcatggcct ggcgctggcc cggctgcagg gccagggccg agcccacggt 180
 gggccctgct gccggcccac tcgctacacc gacgtggcct tcctcgatga ccgccaccgc 240
 tggcagcggc tgccccagct ctcggcggct gcctgcggt gtggtggctg a 291

<210> 200

<211> 291

<212> DNA

<213> Homo sapiens

<400> 200

tcagccacca cagccgcagg cagccgccga gagctggggc agccgctgcc agcgggtggcg 60
 gtcactcagg aaggccacgt cgggtgtagc agtggggccg cagcagggcc caccgtgggc 120
 tcggccctgg ccctgcagcc gggccagcgc caggccatgc tgggtgcggg caccacgggg 180
 gcagctgccg gcgcagtagc ggaagatgac cttctcctct gaggcgtagc ccaggcctag 240
 ctctgccacg gacaggggtca ggctccacag ctggcatgga ccagacaggg c 291

<210> 201

<211> 291

<212> DNA

<213> Homo sapiens

<400> 201

gccctgtctg gtccatgcc a gctgtggagc ctgaccctgt ccgtggcaga gctaggcctg 60
 ggctacgcct cagaggagaa ggtcatcttc cgctactgcg ccggcagctg cccccgtggt 120
 gcccgacccc agcatggcct ggcgctggcc cggctgcagg gccagggccg agcccacggc 180
 gggccctgct gccggcccac tcgctacacc gacgtggcct tcctcgatga ccgccaccgc 240

tggcagcggc tgccccagct ctcggcggct gcctgcggt gtggtggctg a 291

<210> 202
<211> 291
<212> DNA
<213> Homo sapiens

<400> 202 60
tcagccacca cagccgcagg cagccgccga gagctggggc agccgctgcc agcgggtggcg
gtcatcgagg aaggccacgt cgggtgtagcg agtggggccgg cagcagggcc cgcggtgggc 120
tcggcccttg ccctgcagcc gggccagcgc caggccatgc tgggtgcggg caccacgggg 180
gcagctgccg gcgcagtagc ggaagatgac cttctcctct gaggcgtagc ccaggcctag 240
ctctgccacg gacaggttca ggctccacag ctggcatgga ccagacaggg c 291

<210> 203
<211> 471
<212> DNA
<213> Homo sapiens

<400> 203 60
atggccgtag ggaagtctct gctgggctct ctgctgctcc tgtccctgca gctgggacag
ggctggggcc ccgatgccc tggggttccc gtggccgatg gagagtctc gtctgaacag 120
gtggcaaagg ctggagggac ctggctgggc acccaccgcc ccctgccc cctgcgccga 180
gccctgtctg gtccatgcca gctgtggagc ctgaccctgt ccgtggcaga gctaggcctg 240
ggctacgct cagaggagaa ggtcatcttc cgctactgcg ccggcagctg ccccggtggt 300
gcccgcaccc agcatggcct ggcgctggcc cggctgcagg gccagggccg agcccacggt 360
gggccctgct gccggccac tcgctacacc gacgtggcct tcctcgatga ccgccaccgc 420
tggcagcggc tgccccagct ctcggcggct gcctgcggt gtggtggctg a 471

<210> 204
<211> 471
<212> DNA
<213> Homo sapiens

<400> 204 60
tcagccacca cagccgcagg cagccgccga gagctggggc agccgctgcc agcgggtggcg
gtcatcgagg aaggccacgt cgggtgtagcg agtggggccgg cagcagggcc caccgtgggc 120
tcggcccttg ccctgcagcc gggccagcgc caggccatgc tgggtgcggg caccacgggg 180
gcagctgccg gcgcagtagc ggaagatgac cttctcctct gaggcgtagc ccaggcctag 240
ctctgccacg gacaggttca ggctccacag ctggcatgga ccagacaggg ctcggcgagc 300
gcgggcaagg gggcgggtgg tgcccagcca ggtccctcca gcctttgcca cctgttcaga 360
cgagaactct ccatcggcc cgggaacccc acgggcatcg gggccccagc cctgtcccag 420
ctgcagggac aggagcagca gagagcccag caggaaacttc cctacggcca t 471

<210> 205
<211> 471

<212> DNA
<213> Homo sapiens

<400> 205
atggccgtag ggaagttcct gctgggctcc ctgctgctcc tgtccctgca gctgggacag 60
ggctggggcc ccgatgcccg tggggttccc gtggccgatg gagagttctc gtctgaacag 120
gtggcaaagg ctggagggac ctggctgggc acccaccgcc cccttgcccg cctgcgccga 180
gccctgtctg gtccatgcca gctgtggagc ctgaccctgt ccgtggcaga gctaggcctg 240
ggctacgcct cagaggagaa ggtcatcttc cgctactgcg ccggcagctg cccccgtggt 300
gcccgacccc agcatggcct ggcgctggcc cggctgcagg gccagggccg agccccagggc 360
gggccctgct gccggccac tcgctacacc gacgtggcct tcctcgatga ccgccaccgc 420
tggcagcggc tgccccagct ctggcgggct gcctgcggtg gtggtggctg a 471

<210> 206
<211> 471
<212> DNA
<213> Homo sapiens

<400> 206
tcagccacca cagccgcagg cagccgccga gagctggggc agccgctgcc agcgggtggcg 60
gtcatcgagg aagggcacgt cgggtgtagcg agtgggccgg cagcagggcc cgccgtgggc 120
tcggccctgg ccctgcagcc gggccagcgc caggccatgc tgggtgcggg caccacgggg 180
gcagctgccg gcgcagtagc ggaagatgac cttctcctct gaggcgtagc ccaggcctag 240
ctctgccacg gacaggggtca ggctccacag ctggcatgga ccagacaggg ctcggcgcag 300
gcgggcaagg gggcggtggg tgcccagcca ggtccctcca gcctttgcca cctgttcaga 360
cgagaactct ccatcgcca cggaacccc acgggcatcg gggccccagc cctgtcccag 420
ctgcagggac aggagcagca gggagcccag caggaacttc cctacggcca t 471

<210> 207
<211> 69
<212> DNA
<213> Homo sapiens

<400> 207
atggccgtag ggaagttcct gctgggctct ctgctgctcc tgtccctgca gctgggacag 60
ggctggggc 69

<210> 208
<211> 69
<212> DNA
<213> Homo sapiens

<400> 208
gccccagccc tgtcccagct gcagggacag gagcagcaga gagcccagca ggaacttccc 60
tacggccat 69

<210> 209
<211> 69
<212> DNA

<213> Homo sapiens

<400> 209
atggccgtag ggaagttcct gctgggctcc ctgctgctcc tgtccctgca gctgggacag 60
ggctggggc 69

<210> 210
<211> 69
<212> DNA
<213> Homo sapiens

<400> 210
gccccagccc tgtccagct gcagggacag gagcagcagg gagcccagca ggaacttccc 60
tacggccat 69

<210> 211
<211> 111
<212> DNA
<213> Homo sapiens

<400> 211
cccgatgccc gtgggggttcc cgtggccgat ggagagttct cgtctgaaca ggtggcaaag 60
gctggaggga cctggctggg caccacccgc ccccttgccc gcctgcgccc a 111

<210> 212
<211> 111
<212> DNA
<213> Homo sapiens

<400> 212
tcggcgccagg cgggcaaggg ggcggtgggt gccagccag gtccctccag cctttgccac 60
ctgttcagac gagaactctc catcgccac gggaaccca cgggcatcgg g 111

<210> 213
<211> 180
<212> DNA
<213> Homo sapiens

<400> 213
atggccgtag ggaagttcct gctgggctct ctgctgctcc tgtccctgca gctgggacag 60
ggctggggcc ccgatgcccg tggggttccc gtggccgatg gagagttctc gtctgaacag 120
gtggcaaagg ctggaggac ctggctgggc accacccgcc ccttgcccg cctgcgccga 180

<210> 214
<211> 180
<212> DNA
<213> Homo sapiens

<400> 214
tcggcgccagg cgggcaaggg ggcggtgggt gccagccag gtccctccag cctttgccac 60
ctgttcagac gagaactctc catcgccac gggaaccca cgggcatcgg ggccccagcc 120
ctgtcccagc tgcagggaca ggagcagcag agagcccagc aggaacttcc ctacggccat 180

<210> 215

<211> 180
 <212> DNA
 <213> Homo sapiens

<400> 215
 atggccgtag ggaagttcct gctgggctcc ctgctgctcc tgccctgca gctgggacag 60
 ggctggggcc ccgatgcccg tggggttccc gtggccgatg gagagttctc gtctgaacag 120
 gtggcaaagg ctggagggac ctggctgggc acccaccgcc cccttgcccg cctgcgccga 180

<210> 216
 <211> 180
 <212> DNA
 <213> Homo sapiens

<400> 216
 tcggcgtagg cgggcaaggg ggcgggtgggt gccagccag gtccctccag cctttgccac 60
 ctgttcagac gagaactctc catcgccac gggaacccca cgggcatcgg ggccccagcc 120
 ctgtcccagc tgcagggaca ggagcagcag ggagcccagc aggaacttcc ctacggccat 180

<210> 217
 <211> 156
 <212> PRT
 <213> Homo sapiens

<400> 217
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu
 1 5 10 15
 Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
 20 25 30
 Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
 35 40 45
 Leu Gly Thr His Arg Pro Leu Ala Arg Leu Arg Arg Ala Leu Ser Gly
 50 55 60
 Pro Cys Gln Leu Trp Ser Leu Thr Leu Ser Val Ala Glu Leu Gly Leu
 65 70 75 80
 Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser
 85 90 95
 Cys Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu
 100 105 110
 Gln Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys Arg Pro Thr Arg
 115 120 125
 Tyr Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg Trp Gln Arg Leu
 130 135 140
 Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 145 150 155

<210> 218
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 218

Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu
 1 5 10 15

Gln Leu Gly Gln Gly Trp Gly Pro Asp Ala Arg Gly Val Pro Val Ala
 20 25 30

Asp Gly Glu Phe Ser Ser Glu Gln Val Ala Lys Ala Gly Gly Thr Trp
 35 40 45

Leu Gly Thr His Arg Pro Leu Ala Arg Leu Arg Arg
 50 55 60

<210> 219
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 219
 Met Ala Val Gly Lys Phe Leu Leu Gly Ser Leu Leu Leu Leu Ser Leu
 1 5 10 15

Gln Leu Gly Gln Gly Trp Gly
 20

<210> 220
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 220
 Pro Asp Ala Arg Gly Val Pro Val Ala Asp Gly Glu Phe Ser Ser Glu
 1 5 10 15

Gln Val Ala Lys Ala Gly Gly Thr Trp Leu Gly Thr His Arg Pro Leu
 20 25 30

B
 22
 Ala Arg Leu Arg Arg
 35

<210> 221
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 221
 Ala Leu Ser Gly Pro Cys Gln Leu Trp Ser Leu Thr Leu Ser Val Ala
 1 5 10 15

Glu Leu Gly Leu Gly Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr
 20 25 30

Cys Ala Gly Ser Cys Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala
 35 40 45

Leu Ala Arg Leu Gln Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys
 50 55 60

Arg Pro Thr Arg Tyr Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg
 65 70 75 80

Trp Gln Arg Leu Pro Gln Leu Ser Ala Ala Ala Cys Gly Cys Gly Gly
 85 90 95

<210> 222

<211> 267
 <212> DNA
 <213> Homo sapiens

<400> 222
 tgccagctgt ggagcctgac cctgtccgtg gcagagctag gcctgggcta cgcctcagag 60
 gagaaggtca tcttccgcta ctgcgccggc agctgcccc gtggtgccc caccagcat 120
 gccctggcgc tggcccggct gcagggccag ggccgagccc acggtgggc ctgctgccg 180
 cccactcgct acaccgacgt ggccttcctc gatgaccgcc accgctggca gcggctgccc 240
 cagctctcgg cggctgcctg cggctgt 267

<210> 223
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 223
 Cys Gln Leu Trp Ser Leu Thr Leu Ser Val Ala Glu Leu Gly Leu Gly
 1 5 10 15
 Tyr Ala Ser Glu Glu Lys Val Ile Phe Arg Tyr Cys Ala Gly Ser Cys
 20 25 30
 Pro Arg Gly Ala Arg Thr Gln His Gly Leu Ala Leu Ala Arg Leu Gln
 35 40 45
 Gly Gln Gly Arg Ala His Gly Gly Pro Cys Cys Arg Pro Thr Arg Tyr
 50 55 60
 Thr Asp Val Ala Phe Leu Asp Asp Arg His Arg Trp Gln Arg Leu Pro
 65 70 75 80
 Gln Leu Ser Ala Ala Ala Cys Gly Cys
 85

<210> 224
 <211> 5
 <212> PRT
 <213> Homo sapiens

<400> 224
 Ala Leu Ser Gly Pro
 1 5

<210> 225
 <211> 24
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (3)
 <223> s = c or g

<220>
 <221> misc_feature
 <222> (5)
 <223> s = c or g

<220>
 <221> misc_feature

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<222> (6)
<223> y = t or c

<220>
<221> misc_feature
<222> (9)
<223> s = c or g

<220>
<221> misc_feature
<222> (10)
<223> y = t or c

<220>
<221> misc_feature
<222> (15)
<223> y = t or c

<220>
<221> misc_feature
<222> (24)
<223> y = t or c

<400> 225
gtsasygasy tgggyctggg ctay

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24

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<210> 226
<211> 24
<212> DNA
<213> Homo sapiens

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<220>
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<222> (3)
<223> y = t or c

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<220>
<221> misc_feature
<222> (4)
<223> m = a or c

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<220>
<221> misc_feature
<222> (6)
<223> s = c or g

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<220>
<221> misc_feature
<222> (13)
<223> r = a or g

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<220>
<221> misc_feature
<222> (14)
<223> s = c or g

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<220>
<221> misc_feature
<222> (15)
<223> m = a or c

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<220>
<221> misc_feature
<222> (19)
<223> k = t or g

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<220>

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<221> misc_feature
 <222> (21)
 <223> y = t or c

<400> 226
 ttymgstact gcrsmggckc ytg

24

<210> 227
 <211> 24
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (2)
 <223> w = a or t

<220>
 <221> misc_feature
 <222> (7)
 <223> s = c or g

<220>
 <221> misc_feature
 <222> (8)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (10)
 <223> s = c or g

B
 22
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 <221> misc_feature
 <222> (13)
 <223> k = t or g

<220>
 <221> misc_feature
 <222> (15)
 <223> k = t or g

<220>
 <221> misc_feature
 <222> (19)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (22)
 <223> k = t or g

<220>
 <221> misc_feature
 <222> (24)
 <223> s = c or g

<400> 227
 rwaggcsrts ggkckgcrc akgs

24

<210> 228

<211> 21
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (1)
 <223> m = a or c

<220>
 <221> misc_feature
 <222> (2)
 <223> k = g or t

<220>
 <221> misc_feature
 <222> (4)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (7)
 <223> y = t or c

<220>
 <221> misc_feature
 <222> (9)
 <223> r = a or g

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 <222> (10)
 <223> r = a or g

<220>
 <221> misc_feature
 <222> (13)
 <223> s = c or g

<220>
 <221> misc_feature
 <222> (18)
 <223> s = c or g

<220>
 <221> misc_feature
 <222> (19)
 <223> s = c or g

<400> 228
 mkcrtcyarr aasgacasst c

21

<210> 229
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 229
 cggcttggtga ccgagctggg cctggggtac gcctcagagg agaaggtcat cttccgctac 60
 tgcgccggca gctgcccccg tgggtgccgc acccagcatg gcctggcgct ggccccggctg 120
 cagggccagg gccgagccca cggcgggccc tgctgccgcc ccatggcc 168

<210> 230
 <211> 20

<212> DNA
<213> Homo sapiens

<400> 230
gaggagaagg tcattttccg

20

<210> 231
<211> 20
<212> DNA
<213> Homo sapiens

<400> 231
gccgtgggct cggccctggc

20

<210> 232
<211> 24
<212> DNA
<213> Homo sapiens

<400> 232
agaggagaag gtcattttcc gcta

24

<210> 233
<211> 20
<212> DNA
<213> Homo sapiens

<400> 233
ctcggccctg gccctgcagc

20

<210> 234
<211> 20
<212> DNA
<213> Homo sapiens

<400> 234
tgcagccggg ccagcgccag

20

<210> 235
<211> 31
<212> DNA
<213> Homo sapiens

<400> 235
cgcggtacca tgcctggatt cgagggtgca g

31

<210> 236
<211> 31
<212> DNA
<213> Homo sapiens

<400> 236
cgcggtacca tggccgtagg gaagttcctg c

31

<210> 237
<211> 60
<212> DNA
<213> Homo sapiens

<400> 237
ctcccaagct tttacttgct atcgtcgtcc ttgtagtcgc caccacagcc gcaggcagcc

60

<400> 238
ctcccaagct tttacttgtc atcgtcgtcc ttgtagtctc gaggaaggcc acgtcggtg 59

<400> 239
tcagccacca cagccgcagg cagcc

<400> 240
Ser Glu Glu Lys Ile Ile Phe Arg Tyr Cys Ala Gly Ser Cys Pro Gln
 5 10 15

Gly Arg Ala His Gly Arg Pro Cys Cys Gln Pro Thr Ser Tyr Ala Asp
35 40 45

Ser Ala Ala Ala Cys Gly Cys Gly Gly
65 70

<400> 241
Cys Val Leu Thr Ala Ile His Leu Asn Val Thr Asp Leu Gly Leu Gly
 5 10 15

Glu Ala Ala Glu Thr Met Tyr Asp Lys Ile Leu Lys Asn Leu Ser Arg
35 40 45

Val Ala Phe Asp Asp Asp Leu Ser Phe Leu Asp Asp Ser Leu Val Tyr
65 70 75 80

<210> 242

B22

B22

B22

B22

B22

B22

B22